## Claims

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- A detergent free dry cleaning medium based on liquid CO<sub>2</sub> and including from 0.01 to 5% by weight of the cleaning medium of a cleaning additive which is at least one multi-ester having a molecular weight of not more than 750.
- A dry cleaning formulation as claimed in claim 1 wherein the multi-ester includes at least one compound of the formula (I):

$$R^{1}(XR^{2})_{n} \qquad \qquad (i)$$

where

X is -C(O)O- or -OC(O)-; such that

where X is -C(O)O-,

R<sup>1</sup> is a direct bond or the residue of a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group from which n hydrogen atoms have been removed; and

R<sup>2</sup> is a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group; and

where X is -OC(O)-,

R<sup>1</sup> is or the residue of C<sub>2</sub> to C<sub>10</sub> hydrocarbyl group from which n hydrogen atoms have been removed; and

R<sup>2</sup> is H or a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group; and

n is from 2 to 5;

the compound having a molecular weight of not more than 750.

20 3 A dry cleaning formulation as claimed in claim 2 wherein the multi-ester is of the formula (Ia):

R<sup>1a</sup>(XR<sup>2a</sup>)<sub>n</sub> (Ia)

where

X is -C(O)O-;

R<sup>1a</sup> is a direct bond or the residue of a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group from which n hydrogen atoms have been removed;

R<sup>2a</sup> is a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group; and

- 4 A dry cleaning formulation as claimed in claim 3 wherein the multi-ester is a dimethyl ester of adipic, glutaric or succinic acids or a mixture of such esters.
- A dry cleaning formulation as claimed in any one of claims 1 to 4 wherein the average molecular weight of the multi-ester(s) is from 150 to 300.
  - A dry cleaning formulation as claimed in any one of claims 1 to 5 wherein the average ratio of oxygen atoms to carbon atoms in the multi-ester(s) is from 1:1 to 1:5.
  - A dry cleaning formulation as claimed in claim 6 wherein the average ratio of oxygen atoms to carbon atoms in the multi-ester(s) is from 1:1 to 1:1.5.

- A dry cleaning formulation as claimed in any one of claims 1 to 7 wherein the amount of cleaning additive multi-ester present in the cleaning medium is from 0.1 to 0.5% by weight of the cleaning medium.
- 9 A dry cleaning formulation as claimed in any one of claims 1 to 8 which additionally includes 5 at least one fragrance, optical brightener, fabric conditioner, enzyme and/or bleach.
  - A method of dry cleaning which includes contacting textile material with a detergent free dry cleaning medium based on liquid CO<sub>2</sub> and including from 0.01 to 5% by weight of the cleaning medium of a cleaning additive which is at least one multi-ester having a molecular weight of not more than 750.
- 10 A method as claimed in claim 10 wherein the multi-ester includes at least one compound of the formula (I): R<sup>1</sup>(XR<sup>2</sup>)<sub>n</sub> where X, R<sup>1</sup>, R<sup>2</sup> and n are as defined in claim 2, the compound having a molecular weight of not more than 750.
  - 12 A method as claimed in claim 11 wherein the multi-ester is of the formula (la):

 $R^{1a}(XR^{2a})_n$  (Ia)

15 where

X is -C(O)O-;

R<sup>1a</sup> is a direct bond or a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group from which n hydrogen atoms have been removed;

R<sup>2a</sup> is a C<sub>1</sub> to C<sub>10</sub> hydrocarbyl group; and

- 20 13 A method as claimed in any claim 12 wherein the multi-ester is a dimethyl ester of adipic, glutaric or succinic acids or a mixture of such esters.
  - A method as claimed in any one of claims 10 to 13 wherein the average molecular weight of the multi-ester(s) is from 150 to 300.
- A method as claimed in any one of claims 10 to 14 wherein the average ratio of oxygen atoms to carbon atoms in the multi-ester(s) is from 1:1 to 1:1.5.
  - A method as claimed in any one of claims 10 to 15 wherein the amount of cleaning additive multi-ester present in the cleaning medium is from 0.1 to 0.5% by weight of the cleaning medium.
- A method as claimed in any one of claims 10 to 16 which additionally includes at least one fragrance, optical brightener, fabric conditioner, enzyme and/or bleach.
  - A method as claimed in any one of claims 10 to 17 wherein the multi-ester is pre-mixed with liquid CO<sub>2</sub> before contacting the textiles.
  - A method as claimed in any one of claims 10 to 18 wherein the cleaning process is carried out at a temperature of from -5 to 25°C.

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- 20 A method as claimed in claim 19 wherein the temperature is from from 5 to 20°C.
- 21 A method as claimed in claim 20 wherein the temperature is from from 12 to 15°C.